7. Dorian

Program Name: Dorian.java **Input File: dorian.dat**

Dorian is putting the final touches on the problems that he wrote for his school's upcoming Competitive Programming invitational and now needs to write the Judge Documents for his problems. However, Dorian finds himself in a bit of a pickle since his judge data is really, really long and doesn't want to format it by hand when copying it over from the raw files into the Word/PDF documents. Namely, when a line of input or output goes beyond 89 characters, that line will need to be broken down into multiple lines, each additional line beyond the first needing to be indented with a "tab" (which you should treat as 6 spaces) to show continuity. However, he doesn't want to willy-nilly break down a long line – namely, he never wants to break a contiguous set of non-whitespace characters up, even if it means having an excessive number of continued lines, thus wasting a fair bit of otherwise usable space. Knowing that a set of contiguous non-whitespace characters that go beyond 89 characters long (even 83 for indented lines) pose a challenge to his desired format, Dorian has specially crafted his problems to ensure that this never happens. Dorian would normally write this program himself, but he is quite tired after writing 12 problems for his contest. Help Dorian by writing a program that, given a raw data file, formats it in Dorian's desired format.

Input: The input will consist of an unknown number of lines, each line of input will consist of, at minimum, one non-whitespace character. The first line of input that is empty or does not consist of any non-whitespace character will denote the end of the input.

Output: For each line of input, output a new (potentially more than one) line(s) of output that is formatted per Dorian's request. Note that internal whitespace within a line of input should be respected in the output unless doing so would either cause Dorian's rule about contiguous non-whitespace characters to be violated, or if it were to cause the first non-tab character on a "continued line" to be a non-whitespace character. In such cases, the original whitespace should be completely ignored and disregarded in the output.

Sample input: (*indented lines are a continuation of the previous line; lines made longer to reflect width of judge document*)

```
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
      1234567890 1234567890  1234567890   1234567890    1234567890     1234567890
      1234567890       1234567890        1234567890         1234567890
ABCDEFGHIJKLMNOPQRSTUVWYZ    ABCDEFGHIJKLMNOPQRSTUVWYZ  ABCDEFGHIJKLMNOPQRSTUVWYZ
      ABCDEFGHIJKLMNOPQRSTUVWYZ   ABCDEFGHIJKLMNOPQRSTUVWYZ  ABCDEFGHIJKLMNOPQRSTUVWYZ
The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog.
      The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the
      lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox jumps
      over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox
      jumps over the lazy dog. The quick brown fox jumps over the lazy dog.
```

Sample output: (*indented lines are <u>no longer</u> a continuation of the previous line* 😉)

```
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
      1234567890 1234567890  1234567890   1234567890    1234567890     1234567890
      1234567890       1234567890        1234567890         1234567890
ABCDEFGHIJKLMNOPQRSTUVWYZ    ABCDEFGHIJKLMNOPQRSTUVWYZ  ABCDEFGHIJKLMNOPQRSTUVWYZ
      ABCDEFGHIJKLMNOPQRSTUVWYZ   ABCDEFGHIJKLMNOPQRSTUVWYZ  ABCDEFGHIJKLMNOPQRSTUVWYZ
The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog.
      The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the
      lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox jumps
      over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox
      jumps over the lazy dog. The quick brown fox jumps over the lazy dog.
```